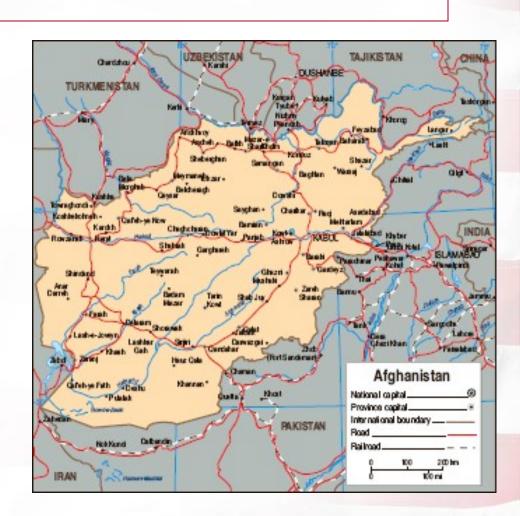
### **AFGHANISTAN**

- Civil war / damaged infrastructure
- Deteriorated public health



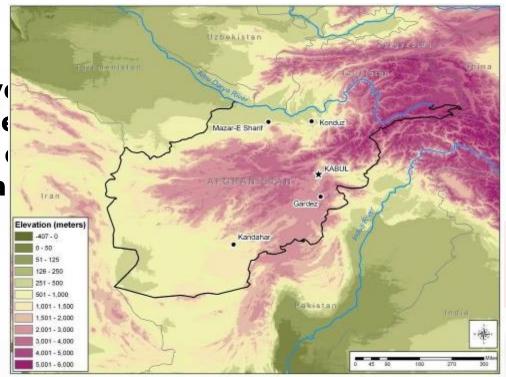


## Caspian Sea Ozbekisten miaAzeroeijan Turkmenistan United Arab Em Arabian Sea Bay of Bengal Afghanistan Location Map

# Where in the world is Afghanistan?

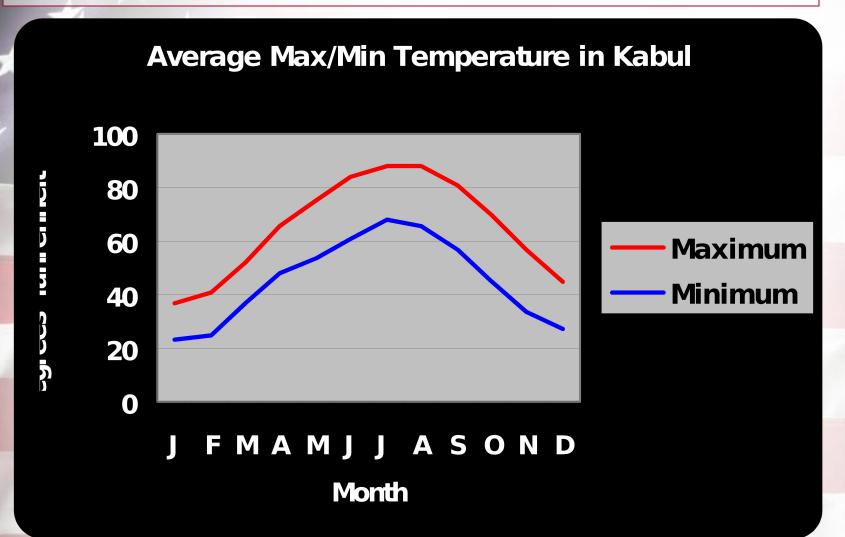
- Topography
  - If operating above 6,000ft imple high countermea
- Climate

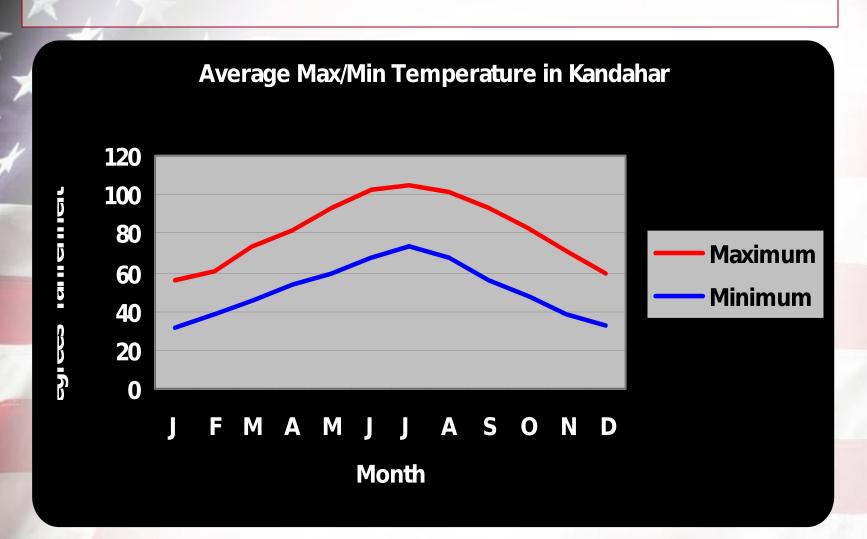
Arid to semiarid; cold winters and

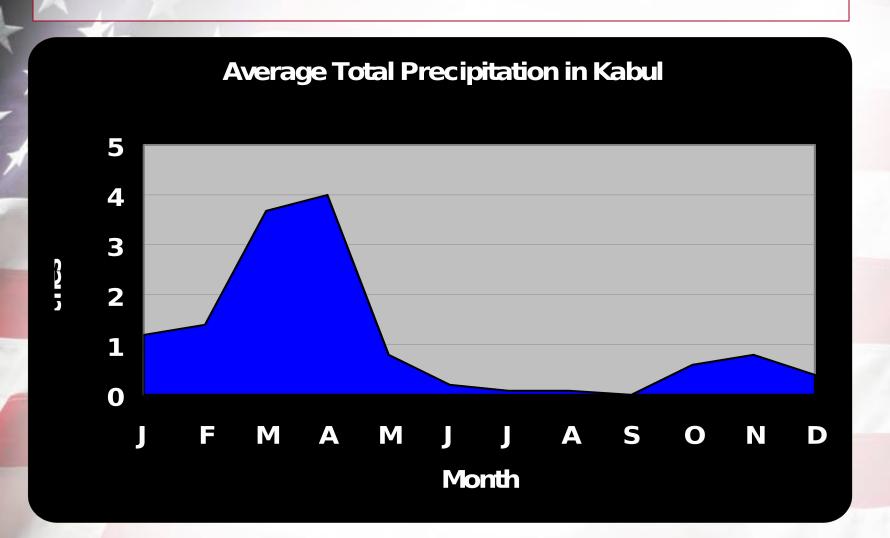


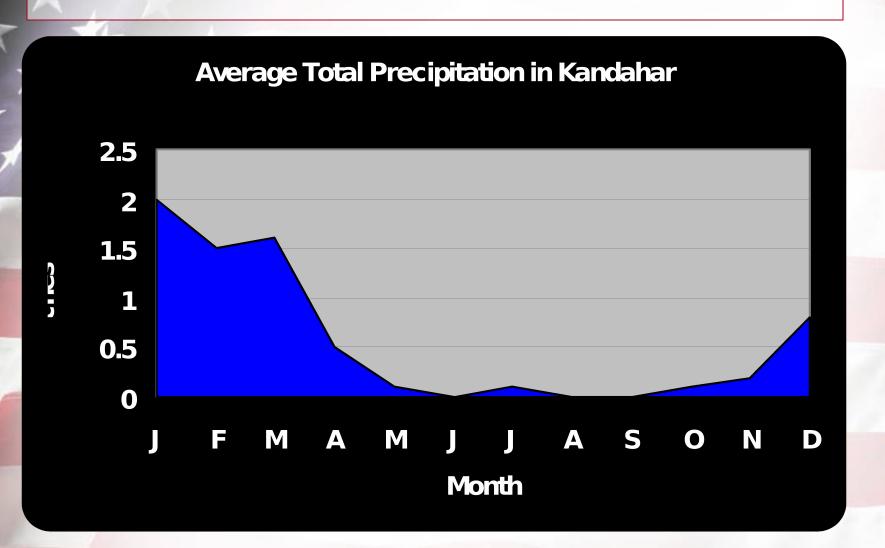
Terrain: mostly rugged mountains; plains in north and southwest

**lowest point:** Amu Darya 258 m = approx 846 ft **highest point:** Nowshak 7,485 m = approx 24,557ft









# **Environmental Health Risk**

- Greatest short term risks associated with ingestion of contaminated food/water; extreme heat/cold; high altitude
- Greatest long term risks associated with air contamination and chemical contamination of food/water



### **Environmental Issues**

### Air Contamination

- Overall, minimal health effects
- High levels of particulate matter (PM10) able to reach the lungs recorded at Salerno, Kandahar, & Bagram
- Short-term (less than or equal to 14 days duration) exposure presents a risk of temporary respiratory symptoms such as coughing, wheezing, and reduced lung function

# **Environmental Issues Cont.**

- Soil Contamination
  - Localized to specific areas around industrial facilities, waste disposal ditches, and open sewage ditches
  - Significant exposure is unlikely
- Water Contamination
  - Contaminated with raw sewage
  - One of the most significant health threats to deployed personnel
  - Sewage contamination of drinking water in urban areas is common

### **Infectious Disease Risk**

• HIGH RISK for infectious diseases

 Inadequate force health protection (FHP) measures, will seriously jeopardize mission effectiveness

### **Infectious Diseases**

- Foodborne and Waterborne Diseases
  - HIGH RISK = Diarrhea, hep A, typhoid fever
  - INTERMEDIATE RISK = brucellosis, cholera, hep E
- FHP Priorities
  - Deploy appropriate PM personnel and equipment
  - Consume food, water, ice only from US-approved sources
  - Operate food preparation facilities in accordance with Army doctrine
  - Ensure proper hand washing facilities near all latrines and dining facilities and enforce

- Vector-borne Diseases
  - HIGH RISK = Malaria
  - INTERMEDIATE RISK = Crimean-Congo hemorrhagic fever, leishmaniasis, sand fly fever, typhus, West Nile fever
- FHP Priorities
  - Use DEET on all exposed skin
  - Treat field uniforms with permethrin
  - Use bed nets in field conditions, treat with permethrin
  - Enforce malaria chemoprophylaxis as appropriate

- Animal-contact Diseases
  - HIGH RISK = Rabies, among the highest in the world
  - INTERMEDIATE RISK = Anthrax, Q-fever
- FHP Priorities
  - Avoid animal contact, especially if the animal exhibits stranged
    behavior
  - No mascots
  - Report all animal bites and scratches

- Sexually Transmitted Diseases
  - INTERMEDIATE RISK = gonorrhea, chlamydia, HIV, Hep B
- FHP Priorities
  - Avoid sexual contact
  - Use latex condoms if sexually active



- Water-contact Diseases
  - INTERMEDIATE RISK = leptospirosis
- FHP Priorities
  - avoid unnecessary contact with lakes, rivers, streams, and other surface water

There will not be a sign like

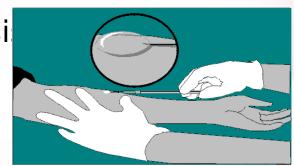
WARNING!

LEPTOSPIROSIS HEALTH HAZARD

FRESH WATER STREAMS AND MUD POSSIBLY POLLUTED WITH BACTERIA

> SWIM, BOAT, OR HIKE AT YOUR OWN RISK

- Respiratory Diseases
  - INTERMEDIATE RISK = tuberculosi



### FHP Priorities

- Tuberculin skin test before and after deployment
- 72 sqft/person and head-to-toe sleeping arrangement
- Cough or sneeze into your upper sleeve instead of your hands
- Wash hands at every opportunity
- Avoid close contact with local population

# Hazardous Animals & Plants

### Animals

Rabid dogs, snakes, centipede scorpions, spiders

### Plants

Mexican Poppy, Fetid Nightshade

### FHP Priorities

- Do not handle animals
- Shake out boots, clothing, & bedd
- Do not touch, chew, eat, or burn unfamiliar plants



### **SUMMARY**

- Physical Environment
- Infectious Diseases = High Risk
- Hazardous Animals and Plants
- FHP measures are simple and effective
  - Use and Enforce
  - Will conserve the fighting stren

